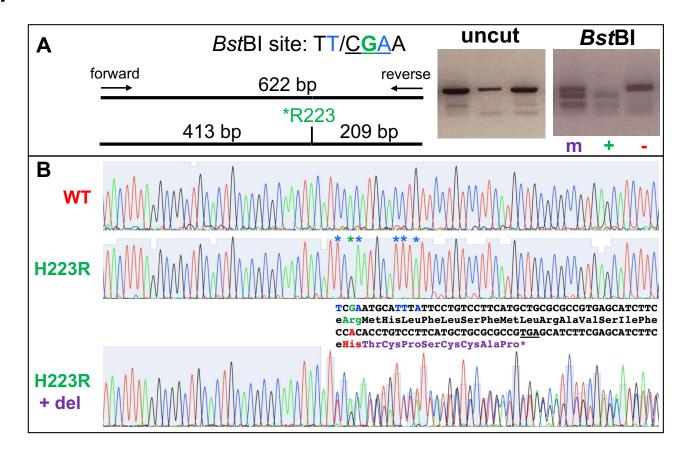
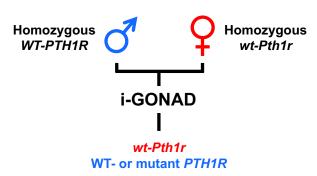
Suppl. Fig. 1



Suppl. Table 1: Homozygous "humanized" PTH1R males to generate H223R-PTH1R founders through i-GONAD



	Litter 1	Litter 2	Litter 3			
Human PTH1R genotypes	n=10	n=11	n=4	n	Phenotype	Age at death
WT alone	1	7	0	8	no	culled
Mosaic WT plus an insertion or deletion	0	1	1	2	no	culled
Only insertion or deletion	4	0	1	5	no	culled
H223R only	2	2	0	4	yes+	10-60 days***
Mosaic H223R plus an insertion or deletion	3*	0	1	4	yes++	4-9 months+++
No DNA sequence		1	1	2	unknown	<10 days
No phenotype or unknown	5	9	3	17		
Skeletal phenotype with the H223R mutation	5	2	1	8		

^{* =} two of three mosaic males (#8 and #9) were used for matings that yielded F1 pups

Suppl. Table 2: Mating scheme using males mosaic for H223R-PTH1R and PTH1R-del, genotypes and sex distribution of F1 pups

- Mosaic: H223R-PTH1R PTH1R indel - wt-Pth1r	1 5	Homozygous wt-Pth1r	homozygous wt-Pth1r	homozygous wt-Pth1r	PTH1R-del wt-Pth1r	PTH1R-del wt-Pth1r	H223R-PTH1R wt-Pth1r	H223R-PTH1R wt-Pth1r
wt-Pth1r	PTH1R-del	H223R-PTH1R	(males)	(females)	(males)	(females)	(males)	(females)
<i>wt-Pth1r</i> (n=51)	<i>wt-Pth1r</i> (n=2)	<i>wt-Pth1r</i> (n-48)	30	21	2	0	30	18

	H223R mutant (H223R-PTH1R/wt-Pth1r)	Wild-type (wt-Pth1r/wt-Pth1r)	H223R mutant (H223R-PTH1R/wt-Pth1r)	Wild-type (wt-Pth1r/wt-Pth1r)	H223R mutant (H223R-PTH1R/wt-Pth1r)	Wild-type (wt-Pth1r/wt-Pth1r)
	Males+females	Males+females	Males alone	Males alone	Females alone	Females alone
Calcium (mmol/L)	111111111111111111111111111111111111111	Walto Folliaro	mares arene	marco dione	T STITLE STATE OF THE STATE OF	, omaios arono
mean	2.71	3.13	2.64	3.26	2.88	2.75
SD	0.96	1.40	0.88	1.52	1.26	1.04
SEM	0.22	0.32	0.23	0.41	0.56	0.47
Median	2.73	2.77	2.60	3.04	2.99	2.77
n	19	19	14	14	5	5
p-value	0.5		0.3		0.6	
Phosphate (mmol/L)						
mean	2.84	3.12	3.10	2.99	2.38	3.51
SD	0.77	1.06	0.81	1.06	0.41	1.04
SEM	0.21	0.23	0.27	0.27	0.18	0.46
Median	2.74	3.01	2.77	3.13	2.40	3.01
n	14	21	9	16	5	5
p-value	0.4		0.4		0.7	
PTH (pmol/L)						
mean	5.45	7.99	3.63	7.79	7.26	8.54
SD	5.5	3.5	2.9	3.8	7.0	2.7
SEM	1.58	0.80	1.18	1.02	2.87	1.21
Median	2.62	7.29	2.56	6.81	3.36	8.12
n	12	19	6	14	6	5
p-value	0.01		0.001		0.4	
CTX-1 (ng/ml)						
mean	70.12	38.20	82.73	42.04	39.51	26.65
SD	79.2	32.5	88.5	26.3	39.7	47.9
SEM	16.16	6.63	21.48	6.20	14.99	19.54
Median	32.15	29.35	37.70	36.55	20.75	8.70
n	24	24	17	18	7	6
p-value	0.06		0.06		0.1	
DIAID (mar/mal)						
P1NP (ng/ml)	12.20	31.44	11.50	36.16	17.71	17.27
mean SD	13.39 23.4	28.3	11.50 13.5	25.7	39.1	33.5
SEM	4.89	5.79	3.37	6.06	14.77	13.69
Median	2.81	24.17	6.91	31.55	14.77	3.94
n	2.81	24.17	16	18	7	3.94 6
p-value	0.003	24	0.001	10	0.2	O
p-value	0.005		0.001		0.2	
CTX-2 (pg/ml)						
mean	68.40	28.60	83.24	32.28	16.46	13.90
SD	64.4	18.5	65.9	18.2	6.6	12.9
SEM	15.18	4.77	17.62	5.25	3.29	7.44
Median	54.27	26.36	60.26	26.45	15.00	10.20
n	18	15	14	12	4	3
p-value	0.03	15	0.006	16	0.6	3
p value	0.03		0.000		0.0	